DOCUMENT RESUME

ED 301 461 SE 050 183

TITLE	Environmental Education Materials for Teachers and Young People (Grades K-12).
INSTITUTION	Environmental Protection Agency, Washington, D. C.
REPORT NO	OPA-87-022
PUB DATE	Aug 88
NOTE	17p.
AVAILABLE FROM	Office of Community and Intergovernmental Relations (A-108 EA), U.S. Environmental Protection Agency, 401 M Street SW, Washington, DC 20460 (free while supply lasts).
PUB TYPE	Reference Materials - Bibliographies (131)
EDRS PRICE	MF01/PC01 Plus Postage.
DESCRIPTORS	Annotated Bibliographies; Conservation (Environment); *Conservation Education; *Elementary School Science; Elementary Secondary Education; *Environmental Education; *Instructional Materials; Natural Resources; Pollution; Science and Society; Science Education; Science Materials; *Secondary School Science

ABSTRACT

This annotated list of educational materials on environmental issues includes a wide range from workbooks and lesson plans to newsletters, films and software intended for young people. Educational materials are listed alphabetically following the name of the sponsoring agency or group. A separate list includes materials available from the U.S. Environmental Protection Agency. Over 150 materials from 43 different groups and agencies are listed along with information regarding their cost, if any, and availability. The materials listed are all designed specifically for children from kindergarten through grade 12. Topics covered include pollution, acid rain, natural resource conservation, forestry, water quality, pest management, hazardous waste, gardening, ecosystems, soil conservation, and wildlife management. (CW)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED3014461

United States
Environmental Protection
Agency

Office of
External Affairs (A-108)
Washington DC 20460

August 1988
OPA 87-022

Office of Community and Intergovernmental Relations

EPA

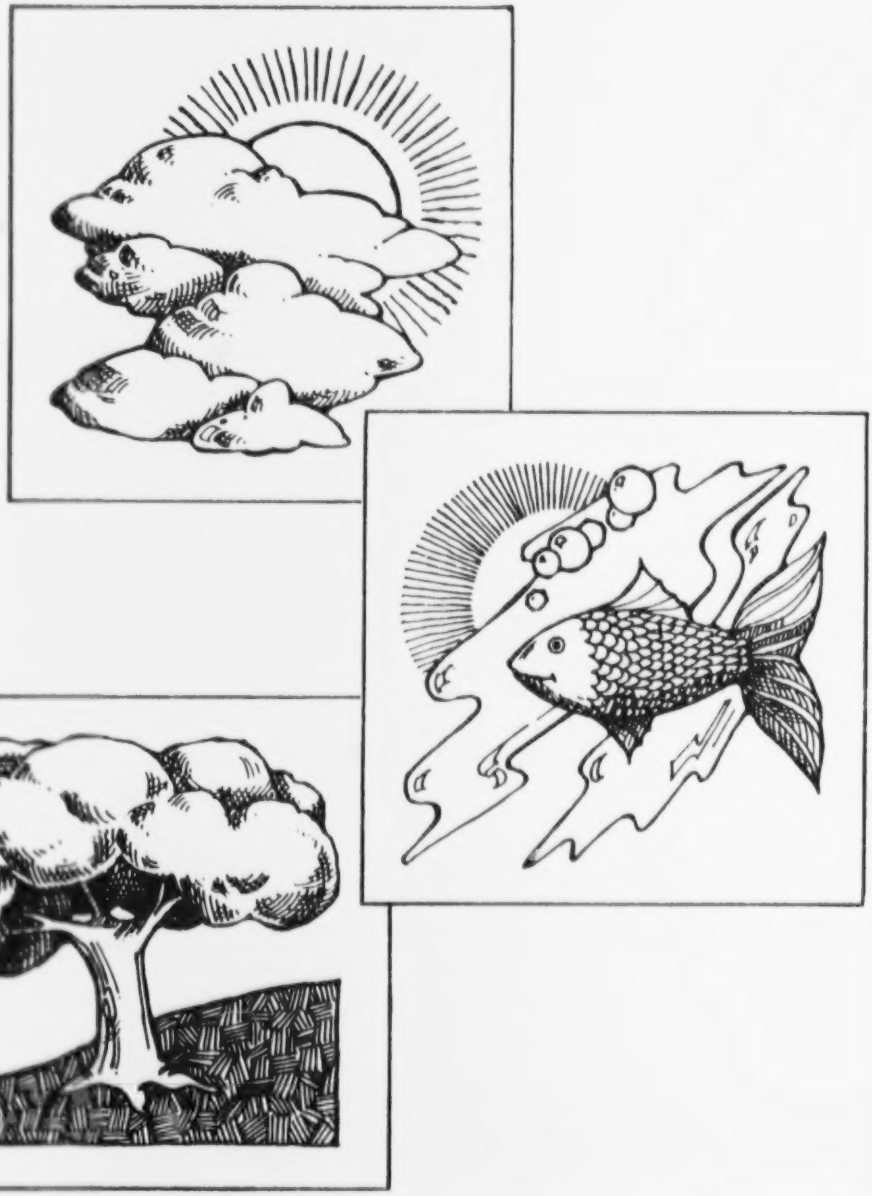
Environmental Education Materials For Teachers and Young People (Grades K-12)

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

X This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.



SE 050 783

Contents

Introduction 1
Environmental Education Materials (Grades K-12): An Annotated List 3
Acid Rain Foundation 3
America The Beautiful Fund 3
American Forestry Asssociation 4
American Lung Association 4
American Society for Environmental Education 4
American Water Works Association 4
Bullfrog Films 5
California Waste Management Board 5
Center for Environmental Education 5
Citizens Clearinghouse for Hazardous Wastes 5
Citizens for a Better Environment 5
Coastal States Organization 6
Community Environmental Council 6
Conservation Foundation/World Wildlife Fund 6
Disney Educational Productions 6
Environmnental Action Coalition 7
Global Tomorrow Coalition/West 7
Golden Empire Health Planning Center 8
Institute for Environmental Education 8
Iowa State Department of Education 8
Izaak Walton League of America 9
Michigan Media 9
Modern Talking Pictures 9
National Arbor Day Foundation 9
National Association for the Advancement of Humane Education 9
National Audubon Society 10
National Gardening Association 10
National Geographic Films 10
National Wildlife Federation 11
Pyramid Films 11
San Francisco Recycling Program 11
Sierra Club 12
Soil and Water Conservation Society 12
University of California Extension Media Center 12
Virginia Air Pollution Control Board 13
Washington State Citizens for Recycling 13
Washington State Department of Ecology 13
Water Pollution Control Federation 13
Selected Publications Available from EPA's Public Information Center **13**
Environmental Education Resource Facilities **14**
Environmental Action Coalition 14
Global Tomorrow Coalition/West 15
Science, Mathematics, and Environmental Education Analysis Center 15
Walt Disney World 15

Introduction

This annotated list of educational materials on environmental issues has been compiled by the U.S. Environmental Protection Agency (EPA). Entries include diverse materials ranging from workbooks and lesson plans to newsletters, films, and computer software intended for young people. Educational materials available from sources other than EPA are listed alphabetically following the name of their sponsoring organization or group. A separate listing of selected EPA publications and other material available from EPA's Public Information Center is also included in this pamphlet.

For further research and reference, a short, descriptive list of environmental education resource facilities is also provided at the end of this pamphlet.

EPA expects to expand and update this publication to include additional information called to our attention in the future. Please direct such information to:

Office of Community and Intergovernmental Relations (A-108 EA)
U.S. Environmental Protection Agency
401 M Street, SW.
Washington, DC 20460
(202) 382-4454

Environmental Education Materials
(Grades K-12): An Annotated List

Most of the educational materials listed below are available at a nominal cost. Specific information about prices may be obtained by contacting sponsoring organizations directly.

Acid Rain Foundation

1630 Blackhawk Hills
St. Paul, Minnesota
55122

Dr. Harriett Stubbs
Executive Director
(612) 455-7719

Acid Rain in Minnesota: Teacher's Resource Guide. Seventeen interdisciplinary classroom activities involving economics, literature, government, environmental studies, speech, and drama.

Acid Rain Reader (Grades 4-6). A primer for students, providing a general overview on acid rain.

Acid Rain: Science Projects (Grades 5-12). Innovative, interdisciplinary projects, using scientific methods of inquiry, reviewed by a national panel of scientists, educators, teachers, and students. Projects include studies in pH measurement, logarithms, plants, microorganisms, and reading. Students learn about the consequences of acid rain and are introduced to possible alternatives for solving acid rain problems in the future.

The Air Around Us: An Air Pollution Primer. A booklet reviewing air quality issues for students and general audiences. Technical information is well illustrated. Suitable for schools, universities, and libraries.

Curriculum, Acid Rain (Grades 4-8). Twelve interdisciplinary activities include lesson plans and student worksheets. Subjects of science, math, social studies, art, and language arts. Includes information, poster, and pH paper.

Curriculum (Grades 6-12). Interdisciplinary activities consisting of pre- and post-lesson tests, classroom activities, and bibliography. Disciplines covered:

- Life sciences, biology
- Earth sciences
- Physical sciences, chemistry
- Social sciences

Information Packet. General overview packet includes brochures, articles, legislation, and poster which explain acid rain: its causes, effects, and possible remedies.

- Elementary
- Secondary

Acid Rain Quiz for Kids (Grades 4-8). Thirty worksheets for use in the general classroom as part of curriculum units on acid rain.

Acid Rain Word Find (Grades 4-8). Word games designed to teach vocabulary about acid rain.

pH Low Ion Test Kit. Test kit with pH paper, two glass vials, and color chart.

Poster Packet. Includes Acid Rain Foundation poster and U.S. Fish and Wildlife Service poster.

Transparencies. The story of acid deposition, on 12 multicolored transparencies.

Tree Cores. Teaching aid to show how trees grow. Actual tree cores donated to the Acid Rain Foundation by a well-known scientist. Red spruce cores are set into cherry wood (1 1/2 x 12 inches x 1/4 inch), finely sanded, and ready for polyurethane or finish.

Tree Core Activity with Single Tree Core. Tree core sample and illustrated description on how and where the tree core was collected. Package includes a student worksheet and activity instructions.

America the Beautiful Fund

219 Shoreham Building
Washington, DC 20005

Paul Bruce Dowling
Executive Director
(202) 638-1649

Operation Green Plant 1987. Offers between 50 and 500 free packets of seeds (flowers, herbs, vegetables) to local group projects including educational programs.

American Forestry Association

1319 18th Street, NW.
Washington, DC 20036

Dee Kitsoulis
(202) 667-3300

Gypsy Moth Workbook. Twenty-five projects to teach children about the gypsy moth, coded for three different age-group levels. Quizzes, puzzles, word games, and a skit.

What Can I Do? People, Power and Pollution. A pamphlet showing ways that private citizens can help alleviate pollution problems. Written for general audiences; appropriate for high school students.

American Lung Association

1740 Broadway
New York, NY 10019
(212) 315-8809

Charlie Brown Cleans the Air (Grades K-3). A cartoon story about the ambient environment and the need to keep it clean. Available from local offices of the American Lung Association or the national office at the address and phone number listed above.

American Society for Environmental Education

P.O. Box 800
Hanover, New Hampshire 03755-0800

Karen Crowley
Executive Director
(603) 448-6697

American Environment. Quarterly periodical (formerly called ***The Environmental Education Report & Newsletter)*** covering topics of contemporary environmental concern. Each issue focuses on a selected environmental topic, presenting feature articles, up-to-date information, and resource/reference materials. Also, a special section, "Teachers' Pages," lists various resources for teachers on a variety of environmental topics. Past issues have focused on acid deposition, resource recovery, indoor pollution, hazardous wastes, air pollution, and water quality. Some future issue topics: environmental values education, pesticides, and household toxics.

Environmental Education Study Projects for High School Students. A 14-page booklet on environmental problem-solving through independent study.

A Basic Source List of Environmental Education Materials. A 20-page list of books, periodicals, and bibliographies on environmental education.

American Water Works Association

6666 West Quincy
Denver, Colorado 80235

Nancy Felix
Manager of Youth Education
(303) 794-7711, Ext. 2308

Story of Drinking Water (Grades 1-7). Sixteen-page picture book, simply written, that describes the history of drinking water and how modern drinking water systems work. Includes a description of the original sources for drinking water, such as glaciers. Also describes ways people can conserve drinking water.

Teacher Guides and Activities Sheets (primary: Grades 1-3; intermediate: Grades 4-6; advanced: Grades 7-9). Course guides that enable instructors to teach drinking water facts in the context of a curriculum such as math or science. (Format: Teacher's Guide on one side, Student Activity Sheet on the other.)

- ***"The Water System"***
- ***"The Treatment Plant"***
- ***"Ground Water"***
- ***"The Water Cycle"***
- ***"Water Careers"***
- ***"Using Water Wisely"***

Water Fun for You (Grades K-4). Educational coloring book that shows recreational uses for water; also teaches water vocabulary through puzzles.

Educational Series (Grades 2-6). Poster series (3 color, 3 black and white), each 28 by 22 inches.

Always Pure, Never Runs Dry (Grades 4-12). Fifteen-minute video (VHS—1/2 inch) available on a rental basis. Shows how a "real-life" county water system works. Also documents ways to conserve water.

Water Follies (Grades K-5). Short (7 1/2 minutes), 16-mm color film featuring cartoons for water conservation, with music and sound effects.

Water Careers (booklet and brochure for Grades 6-12). Why a career in the field of water management makes sense.

Public Information leaflets:

- *"Water Conservation at Home"* (Grades 6-12)
- *"Coloring Fun for Little Water Users"* (Grades K-3)
- *"Take a Test" [on water conservation]* (Grades K-3)
- *"25 Things You Can Do to Save Water"* (Grades 4-9)
- *"The Leak Seeker"* (Grades 4-9)
- *"Five Basic Ways to Conserve Water"* (Grades 4-9)

"Conserve Water" Reminder Sticker (Grades K-6)

Bullfrog Films

Oley, Pennsylvania 19547

Elizabeth Stanley
(215) 779-8226

A catalog listing environmental films for young people is available upon request.

California Waste Management Board

Resource Conservation Division
1020 Ninth Street, Suite 300
Sacramento, California 95814

Marylou Shurtleff
Associate Government Program Analyst
(916) 322-4416

Solid Waste Environmental Education Program (SWEEP):

- *"The Wizard of Waste"* (Grades 2-4)
- *"The Trash Monster"* (Grades 5-7)

Each 10-lesson plan includes teacher's guide, filmstrip and cassette tape, pre- and post-lesson tests, picture cards, home information leaflets, and pupil booklets. Self-contained, interdisciplinary units designed to teach students resource conservation skills they can apply in their daily lives.

Center for Environmental Education

1725 DeSales Street, NW., Suite 500
Washington, DC 20036

Linda Bennett
(202) 429-5609

The Ocean: Consider the Connections (Grades K-8). Activity book for children.

Sea Turtle Coloring Book. Bilingual (Spanish/English) coloring book.

Whale Coloring Album. History of whales and their behavior.

Citizens Clearinghouse for Hazardous Wastes

P.O. Box 926
Arlington, Virginia 22216

Lois Gibbs
Executive Director
(703) 276-7070

Stress: What it Does to Families and Children at Dump Sites. Seventeen-page paper on problem of stress experienced by young people living in communities where toxic hazards are present.

Citizens for A Better Environment

942 Market Street, Suite 505
San Francisco, California 94102

Julia E. May
(415) 788-0690

Living With Insects in the Big City (Grades K-3). Urban insect ecology and safe pest management curriculum. Ten lesson units of 40-50 minutes each. Includes visual aids.

Coastal States Organization

444 North Capitol Street, NW., Suite 312
Washington, DC 20001

Stephanie Sanzone
(202) 628-9636

Coastal Zone Management poster

Community Environmental Council

930 Miramonte Drive
Santa Barbara, California 93109

John McGinness
(805) 963-0583

Various environmental materials for young people.

Conservation Foundation/World Wildlife Fund

1250 24th Street, NW.
Washington, DC 20037

Emily Mead
(202) 293-4800

Tropical Rain Forest Teacher's Kit (available in Spanish only). Designed for junior high and high school students. Provides background information on the ecology of the tropical rain forest and the environmental problems that presently affect the functioning of this ecosystem. Suggests activities teachers can use to add tropical rain forest topics to their existing curriculum. Includes a teacher's guide, coloring book, posters, rain forest simulation game, and a student's packet of materials.

Activities in Environmental Education (available in Spanish only). Separate teacher's manuals for Grades 1-3 and Grades 4-6. Provides activities for teachers to incorporate global resource management concepts into natural sciences, social sciences, and art curricula. One copy of a student workbook containing worksheets, graphs, etc., accompanies each teacher's manual.

Coral Reef Teacher's Kit (all materials are bilingual). Provides junior high teachers with background information on coral reefs, their importance as an ecosystem, and the wildlife found there. Includes a variety of activities that teachers can use to communicate this information to their students. Contains teacher's guide, coloring book, poster, and color slides.

Methods of Environmental Education (available in Spanish only). A guidebook for primary school teachers. Contains methods teachers can use to incorporate global resource conservation issues into existing curriculum objectives. Suggests outdoor activities. Includes sample student worksheets.

Disney Educational Productions

500 South Buena Vista Street
Burbank, California 91521
(800) 423-2555 (TOLL FREE)

Educational Media (Grades K-12). A catalog listing environmental filmstrips, films, videotapes, and computer software for young people is available upon request.

Environmental Action Coalition

625 Broadway
New York, New York
10012
(212) 677-1601

EcoNews (Grades 4-6). Children's newsletter. Back issues available on various topics.

Curriculum Guides . Include background information for teachers, student activity plans, annotated resource lists.

- ***Green Spaces in City Places*** (forestry in urban environment)
- ***City Trees, Country Trees*** (forestry)
- ***Plant a Tree for Arbor Day*** (forestry)
- ***Don't Waste Waste!*** (waste disposal)
- ***Woods and Water*** (water supply and conservation).

Global Tomorrow Coalition/West

708 Southwest Third
Avenue, Suite 227
Portland, Oregon 97204

Amy E. Holm
Education Director
Western Office
(503) 295-0382

A Nation of Oceans: Describes marine ecosystems and conservation efforts for second grade readers.

Acid Rain: Activities for Grade 4-6 students about the causes of acid rain, the problems it creates, and how individuals can combat acid rain.

Acid Rain: What is it and How is it Measured? Science-oriented lesson plans for Grade 6-8 students with background information.

Coral Reefs: Materials and activities for teaching junior high school students.

Directory of Marine Education Resources: A guide to organizations that provide information on marine education.

Education Packets (Grades K-12). Contain background information, lesson plans, hand-outs, posters, and a glossary. Topics covered:

- ***Tropical Forests***
- ***Population***
- ***Biological Diversity***
- ***"Consider the Connections"***

Environmental Education About the Rain Forest: A handbook for teachers to aid in designing natural and social science lessons on the ecosystem.

Environmental Education Series: Overviews on trends in environmental education for educators—

- ***#1 Trends in Environmental Education since the Tbilisi Conference***
- ***#4 Module on Environmental Problems in Cities***
- ***#5 Environmental Education: Module for Pre-Service Training of Teachers***
- ***#17 A Comparative Survey of the Incorporation of Environmental Education into School Curricula***

Hazardous Waste: A list of resources and materials for teachers.

Intercom —"Environmental Issues and the Quality of Life" (#82) and "Shaping the Environment" (#83)—provides classroom ideas, and lists of suggested resources for secondary grades.

Investigations: Toxic Waste: Curriculum guide including lab activities and resource lists for secondary students.

More Than Trees (in Spanish): Information and activities on tropical forests for secondary students.

Plastics in the Ocean: More than a Litter Problem: Maps, data, and other background information.

Project Wild: Interdisciplinary curriculum guide for K-6 teachers on environmental studies.

The Class Project: Activities for classroom conservation projects for intermediate grades.

The Ocean Students Consider the Connection: Activities for elementary school-age students,includes word games, art projects, experiments, and information.

Golden Empire Health Planning Center

2100 21st Street
Sacramento, California
95818
(916) 731-5050

Toxics in My Home? You Bet! (available in Spanish or English). Developed as a one-week course of instruction, this school curriculum identifies: toxics in the home environment; methods for reducing exposure to household toxics; unsafe circumstances involving toxic products; and safer alternatives to using such products. Step-by-step teaching instructions, masters for worksheets, teacher answer guides, and evaluation methods are all included.

- Grades K-3
- Grades 4-6
- Grades 7-8
- Grades 9-12

Institute for Environmental Education

32000 Chagrin
Boulevard
Cleveland, Ohio 44124

Mary M. Roberts
Vice President
(216) 464-1775

A Curriculum Activities Guide to Water Pollution and Environmental Studies, Volumes I and II. Volume I is divided into four chapters: the hydrologic cycle, human activities, ecological perspectives, and social and political factors. Each chapter involves the students and the teacher in action-oriented activities in the community, the laboratory, or both. Volume II includes laboratory and field-testing procedures; considerations for implementing water studies; a bibliography of materials including periodicals and films; a glossary; and safety tips. Suggested for senior high school use.

A Curriculum Activities Guide to Water Pollution Equipment and Environmental Studies. Written by high school students with art contributions from professional draftsmen, this guide tells how to build 22 basic but relatively non-technical devices for measuring water quality parameters and related factors, such as rainfall, slope, and topography. Each construction plan includes a list of materials needed, sources, costs, and tools required. Chapter 2 describes combinations of equipment constituting basic, intermediate, or advanced test kits. Activities may be adapted for elementary students by substituting materials or assembling devices beforehand. Suggested for upper elementary, junior high, and senior high school levels.

A Curriculum Activities Guide to Solid Waste and Environmental Studies. These activities offer students a general understanding of the problems of solid waste management and provide a framework for further study and exploration of more technical works on the subject. Eleven "awareness" and 26 intermediate-level activities are designed for community involvement in both rural and urban settings. The activities range from one class period to several weeks in duration. Process skills called upon include categorizing, measuring, inferring, questioning, and evaluating. Appendices include a glossary and bibliography. Suggested for elementary and junior high and senior high school levels.

A Curriculum Activities Guide to Watershed Investigations and Environmental Studies. The "whys" and "hows" of studying a watershed are explored here, including the theories, goals, and objectives for watershed studies in schools. Chapter II suggests strategies for a successful public-relations program to complement the studies. Later chapters address introductory activities for the field and classroom.

Iowa State Department of Education

Grimes State Office Building
Des Moines, Iowa
50319

Duane Toomsen
Environmental Education Consultant
(515) 281-3146

Various materials for young people available.

Izaak Walton League of America

1701 North Fort Myer Drive, Suite 1100
Arlington, Virginia
22209

Karen Firehock
(202) 528-1818

Save Our Streams. Stream "adoption" program. Guide entitled "Save Our Stream Activities for Kids" helps young people discover stream problems and ways to solve them.

Learning to Love Streams: Save Our Streams (Grades 4-12). A collection of teacher lesson plans for stream activities and monitoring. Designed to test stream water quality and to pinpoint problems.

Save Our Streams Kit. Everything needed to start an effective and active stream monitoring program. Includes "A New Citizens Guide to Clean Water," SOS stream survey, vocabulary list, stream insect identification and chart, promotion hints, erosion fact sheet, project ideas, registration card, poster, and bumper sticker.

A Stream Watchers Stream Guide. Tips on identifying pollution in streams and practices to reduce it.

Michigan Media

University of Michigan
Media Resources
Center
400 Fourth Street
Ann Arbor, Michigan
48103-4816
(313) 764-5361

A catalog listing environmental films for young people is available upon request.

Modern Talking Pictures

5000 Park Street North
St. Petersburg, Florida
33709
(813) 541-7571

A catalog listing environmental films for young people is available upon request.

National Arbor Day Foundation

100 Arbor Avenue
Nebraska City,
Nebraska 68410
(402) 474-5655

Grow Your Own Trees (Grades K-3). Filmstrip, audio cassette, activity sheets, teacher handbook.

National Association for the Advancement of Humane Education

P.O. Box 362
East Haddam,
Connecticut 06423
(203) 434-8666

Various environmental materials for young people.

National Audubon Society

613 Riversville Road
Greenwich, Connecticut
06830

Sayre Beekley
Assistant to the Vice
President for Education
(203) 364-0520

Audubon Adventures (Grades 3-6). The National Audubon Society's youth education program for elementary school classes and other groups of children. An enrolled class or group receives "Audubon Adventures" bimonthly newspaper for children, the companion "Leader's Guide" of background information and activity ideas for the teacher, as well as student membership cards and decals.

The Egret Express. Newsletter of the National Audubon Society's Education Division.

Living Lightly in the City, Volume 1 (Grades K-3). The primary-level book is filled with action-oriented activities which stimulate primary-grade children to explore their surroundings and develop a positive image of themselves and their environment. Many of the activities focus on language development, particularly the use of action-oriented words, as children participate in discovering more about the world around them. The book's six units contain a variety of resource materials, including mobile patterns, flannel board cut-outs, mystery cards, student activity sheets, and posters. Puppets, poetry, challenging art projects, and games are all used.

Living Lightly in the City, Volume 2 (Grades 4-6). The intermediate level curriculum has 11 units which cover a broad range of topics including land use, water resources, transportation, nature in the city, and Native American philosophy. The topics are presented in action-oriented activities, relevant to the lives of Grade 4-6 students. The volume has 60 transparency designs, mystery cards, and student activity sheets.

Living Lightly on the Planet, Volume 1 (Grades 7-9). Junior high school students will discover some of our limits to growth as they explore global population concerns and delve into land use issues. Environmental concerns at home are also emphasized in investigations covering ground water, lifestyles, and urban ecology. Students will role-play a variety of viewpoints, study consumer habits from the point of view of an extraterrestrial being, and create displays to communicate conservation and recycling activities.

Living Lightly on the Planet, Volume 2 (Grades 10-12). The senior high guide is designed to help students apply knowledge of ecological concepts to human interaction with the land. Global concerns such as famine, rain forest conservation, and international peace are presented in investigations which challenge students' critical thinking, communication, and problem-solving skills. Activities are designed to help students discover the nature of the acid rain problem and the root of our hazardous wastes dilemma. Students will also be encouraged to debate the nuclear power issue and explore the possibilities for alternative energy, appropriate technology, and lifestyles for the 21st century.

National Gardening Association

180 Flynn Avenue
Burlington, Vermont
05401

Delores Spies, Administrative Assistant,
Education Programs
(802) 863-1308

Youth Gardening Book. Resource manual for teachers, parents, and organizers who work with children, ages 6-16. Describes successful garden experiments. 148 pages with illustrations and photos.

The Community Garden Book. Explores successful community garden projects: creating and managing neighborhood food gardens. 121 pages, with photos and illustrations.

Gardens Grow Children. Slide-cassette tape show. Concentrates on special considerations of gardening with kids. Includes proven methods and good program approaches for school gardens and indoor gardens.

The Youth Gardening Book (newly revised). A manual for teachers and organizers who work with children, ages 6-16. Describes over 70 activities for learning the fun way in the garden. Includes tips for site selection, etc.

National Geographic Films

17th & M Streets, NW.
Washington, DC 20036
(202) 921-1330

A catalog listing environmental films for young people is available upon request.

National Wildlife Federation

1412 16th Street, NW.
Washington, DC 20036-2266

Sue Sandmeyer,
Director
Educational Programs Distribution
(202) 790-4360

Nature Scope (Grades K-7). Classroom activity series, each issue focusing on a specific area of nature and science teaching. Includes up-to-date background information about that issue's topic; activity ideas to reinforce learning; ready-to-copy activity sheets; a craft section; and an appendix. Past issues have covered the following topics:

- ***Wading into Wetlands***
- ***Amazing Mammals (Parts I and II)***
- ***Digging into Dinosaurs***
- ***Wild about Weather***
- ***Discovering Deserts***
- ***Incredible Insects***
- ***Birds, Birds, Birds!***
- ***Trees are Terrific***
- ***Astronomy Adventures***
- ***Geology: The Active Earth***

Let's Clear the Air. Filmstrip and slide/tape presentation describing substances that pollute the air, what harm they do, and what is being done to help control them. In addition to both indoor and outdoor air pollution, the problem of acid rain is also addressed—what it is, what it does, and why some parts of the country are hurt more than others. Fifteen minutes, narrative script, educator's guide.

Discover Wildlife in Your World. Filmstrip and slide/tape show presenting animals of many environments and discussing special techniques for attracting wildlife and improving habitat in an urban, suburban, or rural setting. Ten minutes, narrative script, educator's guide.

Soil—We Can't Grow Without It. Filmstrip and slide/tape show discussing soil and its significance to plants, animals, and people. Fifteen minutes, narrative script, educator's guide.

Water—We Can't Live Without It. Filmstrip and slide/tape show on how freshwater habitats support wildlife, what threatens our water supply, and how we can conserve this vital resource for future generations. Fourteen minutes, narrative script, educator's guide.

We Care About Eagles. Filmstrip and slide/tape show offering a close look at eagles and the environmental problems that have threatened some species. Fifteen minutes, narrative script, educator's guide.

Ranger Rick (Grades K-6). Monthly natural science magazine for young people. True adventures, stories, photographs, puzzles, games, contests, and pull-out surprises.

Pyramid Films

Box 1048
Santa Monica,
California 90406
(213) 828-7577

A catalog listing environmental films for young people is available upon request.

San Francisco Recycling Program

Room 271, City Hall
San Francisco,
California 94102

Amy Pearlmutter
(415) 554-6194

Fourth R (Grades K-5). Curriculum on recycling, reuse, and waste reduction. Teacher lesson plans, student activities, and worksheets.

Sierra Club

c/o Pat Suiter
P.O. Box 557953
Miami, Florida 33255-7953

Pat Suiter, Chairman
National Environmental Education Committee
(305) 666-2906 (evenings only)

Sierraecology. Environmental education bimonthly newsletter.

The Old Bullfrog (Grades K-1). A lesson in nature study about a wise old bullfrog who outwits a hungry heron. Includes one filmstrip and one cassette, teacher lesson plan, and student activity sheets.

The Lorax (Grades 2-5). An introduction to ecology and conservation. A once-beautiful forest becomes a smog-covered dump. The loud and dire warnings of the Lorax are ignored for short-term monetary gains. Includes two filmstrips and two cassettes, teacher lesson plan, and student activity sheets.

Pollution: Don't Just Stand There—Do Something (Grades 3-7). An introduction to many current pollution issues. Through specific examples, children learn what pollution is, how it is caused, and why we should be concerned about it. They will also learn what people can do to help solve the problem. Includes four filmstrips and two cassettes.

The Interdependence of Nature (Grades 4-6). Four-part program emphasizing the importance of conservation by demonstrating the interrelationships in nature. Includes four filmstrips and two cassettes.

Will They Survive? (Grades 3-7). Two-part program examining the reasons certain species are endangered, what has been done to save them, and their chances for survival.

Wildlife Needs You. Brochure on the importance of protecting wildlife. Written specifically for children.

Judy's Solid Waste Lesson Plans (Grades 5-6). Classroom activity plans for teaching children about the problems of solid waste.

Environmental Coloring Books. A list of good environmental coloring books available from various sources.

Other materials available on a variety of environmental subjects. (Describe the topic(s) you wish to know more about, and Pat Suiter will send the materials she has and information as to how additional materials may be obtained.)

Soil and Water Conservation Society

7515 Northeast Ankeny Road
Ankeny, Iowa 50021-9764

Tim Kautza
(515) 289-2331

Microcomputer Courseware for Apple and IBM Computers. Includes a two-sided diskette, a 30-page student manual, and a 30-page teacher's guide. Guide includes more than 50 activities and 60 teaching strategies that blend soil and water conservation into language arts, mathematics, social studies, and science curricula. All materials carried in a three-ring binder.

The Story of Land—Its Use and Misuse through the Centuries (Grade 4 and above). A 16-page, full-color cartoon booklet and a four-page teacher's guide. Presents the history of land use from 4500 B.C. to the present, focusing on conservation in the United States since the 1600s. Describes what young people (and adults) can do to help conserve natural resources.

Plants: Improving Our Environment (Grade 4 and above). A 16-page, full-color cartoon booklet and a teacher's guide/file folder with four activity masters. Describes how people are dependent upon green plants for food, water, shelter, and oxygen, and how we use plants for pollution abatement, soil conservation, beautification, building materials, and much more.

Robots of Cave Alpha: Creating a Livable Land (Grade 4 and above). A 16-page, full-color cartoon booklet and a teacher's guide/file folder with four activity masters. Presents adventure story that focuses on the role of the individual in environmental decision-making.

University of California Extension Media Center

2223 Fulton Street
Berkeley, California
94720
(415) 642-0460

A catalog listing environmental films for young people is available upon request.

Virginia State Air Pollution Control Board

P.O. Box 10089
Richmond, Virginia
23240

Dick Stone
(804) 786-5478
Cathy Diamond
(804) 786-7523

Environmental Coloring Books (Grades K-6):

- *"Color your Environment"* (environmental issues)
- *"Airy Canary"* (air issues)
- *"Air Bear"* (woodstoves)

Washington State Citizens for Recycling

4224 University Way, NE.
Seattle, Washington
98105

Kathy Colker
Executive Director
(206) 633-3366

Various materials for young people available.

Washington State Department of Ecology

4350 150th Avenue, NE.
Redmond, Washington
98052-5301

Jan Lingenfelter,
School Program Coordinator,
Education and Information Unit,
Solid and Hazardous Waste Program
(206) 867-7043

A-Way With Waste (Grades K-12). Waste management and recycling curriculum. The primary goal is to reduce waste and increase recycling in school and at home. A 352-page classroom activity guide, 80 activity plans, current articles and research reports, glossary, bibliography, list of resources, and solid waste fact sheet.

Water Pollution Control Federation

601 Wythe Street
Alexandria, Virginia
22314

Jan McAlpine
(703) 684-2437

Curricula:

- *Surface Water*
- *Wastewater Treatment*
- *Ground Water*
- *Environmental Issues*
- *Drinking Water*

Selected Publications Available From EPA'S Public Information Center

Public Information Center

Public Information Center
(PM-211B)
U.S. Environmental Protection Agency
401 M Street SW.
Washington, DC. 20460

Nancy Langford
(202) 382-2080

General

Services of EPA's Public Information Center. Lists and briefly describes materials available through EPA's Public Information Center.

Books for Young People on Environmental Issues (Grades K-12). A selected bibliography of published books on environmental issues, generally available at local public libraries.

Earth Trek . . . Explore Your Environment (Grades 1-5). Educates students to a greater awareness of the environment, and how its preservation requires our help. Includes puzzles and experiments for young people.

Once There Lived a Wicked Dragon (Grades K-4). A story about the need to protect the environment, and what the world would be like if we didn't.

President's Environmental Youth Awards (Grades K-12). Information (brochures and an application) concerning environmental projects that may earn regional and national awards for students.

Air Quality

What is the Greenhouse Effect? (Suitable for junior/senior high school students). A fact sheet explaining the earth's atmosphere and how pollutants in the air are affecting it.

Citizens' Guide to Radon: What It Is and What To Do About It (suitable for junior/senior high school students). A booklet on radon basics: what radon is, where it comes from, what kinds of health threats it can pose, and what to do to reduce radon risks.

Hazardous Waste

The New Superfund: What It Is, How It Works (suitable for senior high school students). Summarizes key aspects of the Superfund clean-up program under the 1986 law.

Pesticides

Be Safe with Pesticides (general audiences). A poster that uses pictures and captions to explain safety tips for the use of pesticides. (English on one side, Spanish on the other.)

Don't Bug Me (Grades K-3). A pamphlet illustrating the safe use of pesticides. Includes pictures and captions.

Spanish Language

Tu Mondo, Tu Ambiente (Grades K-5). A color storybook that explains the causes and effects of pollution.

Water Quality

Lead and Your Drinking Water (suitable for junior/senior high students). A pamphlet describing ways to avoid lead contamination of drinking water at home.

Chesapeake Bay Facts (Suitable for junior/senior high students). A 4-page fact sheet on the Chesapeake Bay and what EPA and nearby states are doing to improve it.

Protecting the Oceans (suitable for junior/senior high school students). Article, reprinted from the *EPA Journal*, discussing the ocean and its valuable resources.

Wetlands

America's Wetlands: Our Vital Link Between Land and Water (suitable for junior/ senior high school students). Photo-illustrated booklet concerning the importance of wetlands, how they are threatened, and what can be done to conserve them for future generations.

Open Your Eyes to Surprise—Wetlands Are Wonderland (Suitable for junior/senior high school students). Full color poster, with information on U.S. wetlands on the reverse side.

Environmental Education Resource Facilities

Environmental Action Coalition

625 Broadway
New York, New York
10012
(212) 677-1601

A library for environmental topics is housed in the Coalition's New York office. It is open to the public. However, please call first to arrange an appointment, since part-time staff must have preparation time.

Global Tomorrow Coalition/West

708 Southwest Third Avenue, Suite 227
Portland, Oregon 97204

Amy E. Holm,
Education Director
Western Office
(503) 295-0382

An educational resource library, open to the public, is located at the GTC/West office in Portland, Oregon. Curriculum materials, films, videos, slide shows, and up-to-date information resources are available to educators. Printed materials are loaned free of charge; however, recipients are responsible for mailing charges. A deposit of $20.00 is required for any audio-visual material sent by mail.

Science, Mathematics, and Environmental Education Analysis Center (SMEAC)

Information Reference Center
Room 310
1200 Chambers Road
Columbus, Ohio 43212-1792
(614) 292-6717

This is a national Educational Resources Information Center (ERIC) sponsored by the U.S. Department of Education. Contact ERIC to obtain a list of available environmental education publications.

Walt Disney World

Epcot Teachers' Center
PO Box 10,000
Lake Buena Vista, FL 32830

Ann M. Land,
Coordinator

Epcot Teachers' Center at Walt Disney World provides a place for visiting educators to explore Epcot Center's educational experiences. Complimentary materials are provided to visiting educators to assist them in bringing Epcot Center's scientific themes into the class curriculum. The Teachers' Center also showcases educational media developed by Disney Education Productions, including videotapes, multimedia kits, filmstrips, and personal computer software. Information is available on water conservation, pesticides, pest management, and other environmental issues. Complimentary study guides for various scientific subjects are also available. Each guide is a complete instructional unit with lesson plans, reading activities, worksheets, and suggested follow-up activities for elementary, junior high, and high school students.